10/583212 IAP12 Rec'd PCT/PT0 1 6 JUN 2006

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Pro Leu Asn Thr Arg Gln Asp Gln Gln Pro Ser Tyr Thr Lys Thr Ser 50 55 60

Pro Gln Lys Pro Ser Asn Ser Asp Gln Arg Ile Glu Asn Ile Cys Glu 65 70 75 80

Ile Gln Phe Asn Lys Ser Glu Ser Lys Asp Gly Phe Asp Pro Phe Gly 85 90 95

Glu Leu Val Thr Ser Gly Lys Arg Asn Pro Lys Gly Tyr Ser Leu Thr 100 105 110

Asn Val Phe Glu Cys Pro Val Cys Gly Ser Gly Phe Val Ser Glu Glu 115 120 125

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Gln Phe Pro Asp Gly Ala Leu Leu Gln Gly Val Phe Leu Pro Ser Glu

355 360 365

Pro Thr Ser Ala Leu Tyr Glu Phe Val Ser Ala Ala Leu Lys Glu Pro 375 Ser Leu Glu Phe Glu Leu Leu His Pro Val Leu Val Lys Lys Arg Val 390 400 385 395 Ile Pro His Phe Pro Ala Ala Gly Glu Arg Ala Val Thr Val Glu Glu 405 410 415 Glu Asp Leu Val Pro Ala Ala Leu Leu Lys Phe Lys Pro Ile Glu Thr 420 425 430 Asp Ser Val Val Phe Thr Gly Leu Cys Asn Glu Leu Leu Glu Ile Ser Glu Pro Leu Glu Thr Gly Ser Val Ala Ser Ser 450 455 <210> 3 <211> 1311 <212> DNA <213> Saccharum officinarum <220> <221> misc_feature (277)..(279) <222> <223> n can be any nucleotide <400> atgatgaagg acaagatgaa ggagttcatg aagaaggtca cctcctccgg gtccgggacc 60 contented teaagggear eteccacgte eteggeteeg gecenteece etecteetee 120 caccccgctg cccgctcctc aaaccctagc ccaaacctca ggcccgctcc taagcggacc 180 tegecaceta eccegeceae titaaceaee gattigacet ecticaegee ectegietge 240 tactectece geogeocoga egegaaegge acegegnnng eegtegeeae egtegegtge 300 cccagctgcg gagacgcgtt tccgtccgag ctcgccgtct ccgagcatct cgacggctgc 360 ctcgcgtcgg cggggggcgc ccgcgcgcgc gccgccgcgt acctcgccgc cgacccgcct 420 ccgcccgcgg cctccgtaga ggtggtcaaa cgcctgctgg gcaacctgct ccgggagccc 480 ggcaacgata agttcaggcg ggtgagattg ggtaacccgc ggatcaagga ggccctggca 540

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Ser Gly Pro Ser Pro Ser Ser Ser His Pro Ala Ala Arg Ser Ser Asn 35 40 45

Pro Ser Pro Asn Leu Arg Pro Ala Pro Lys Arg Thr Ser Pro Pro Thr 50 55 60

Pro Pro Thr Leu Thr Thr Asp Leu Thr Ser Phe Thr Pro Leu Val Cys

Tyr Ser Ser Arg Arg Pro Asp Ala Asn Gly Thr Ala Xaa Ala Val Ala 85 90 95

65

Thr Val Ala Cys Pro Ser Cys Gly Asp Ala Phe Pro Ser Glu Leu Ala 100 105 110

Val Ser Glu His Leu Asp Gly Cys Leu Ala Ser Ala Gly Gly Ala Arg 115 120 125

Ala Arg Ala Ala Ala Tyr Leu Ala Ala Asp Pro Pro Pro Pro Ala Ala 130 135 140

Ser Val Glu Val Val Lys Arg Leu Leu Gly Asn Leu Leu Arg Glu Pro 145 150 155 160

Gly Asn Asp Lys Phe Arg Arg Val Arg Leu Gly Asn Pro Arg Ile Lys 165 170 175

Glu Ala Leu Ala Asp Arg Asp Gly Gly Val Glu Leu Leu Glu Ala Val 180 185 190

Gly Phe Thr Val Gly Asp Glu Gly Glu Pro Phe Ala Val Met Asp 195 200 205

Glu Val Pro Ser Asp Pro Arg Leu Asn Gly Ile Arg Arg Ala Val Leu 210 215 220

Leu Leu Glu Gly Ala His Pro Ser Ala Pro Pro Val Lys Ala Glu Ala 225 230 235 240

Glu Ala Lys Glu Ser Cys Ser Asn Val Ser Asp Val Gln Glu Gly Ala 245 250 255

Lys Thr Ile Asp Arg Gln Ile Arg Val Phe Val Ser Val Pro Gly Ser 260 265 270

Ser Met Ala Gln Asn Asp Val Pro Asp Ser Phe Tyr Lys Leu Ser Gly 275 280 285

Glu Glu Ile Arg Asn Glu Ala Lys Met Arg Arg Glu Arg Leu Glu Gln 290 295 300

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Pro Ser Ser Gly Phe Ala Pro Tyr Ser Pro Leu Ile Ser Thr Ser Ser 65 70 75 80

Arg Arg Thr Asp Pro Pro Ala Gly Ala Gly Ala Gly Glu Asp Asp Ala Val Ala Cys Pro Ser Cys Ala Glu Pro Phe Pro Ser Glu Leu Ala Val Ser Asp His Leu Asp Gly Cys Leu Ala Ala Ala Gly Gly Ala Arg Pro Arg Ala Ala Tyr Leu Ala Gly Asp Pro Pro Ala Ser Ala Val Glu Val Val Lys Arg Leu Leu Gly Asn Leu Leu Ser Asp Pro Arg Asn Asp Lys Tyr Arg Lys Val Arg Leu Gly Asn Pro Arg Ile Lys Glu Ala Leu Ala Asp Arg Glu Gly Gly Val Asp Leu Leu Glu Ala Val Gly Phe Arg Val Ala Asp Glu Gly Glu Leu Phe Ala Leu Met Asp Glu Val Pro Gly Asp Ala Arg Leu Gly Gly Ile Arg Gln Ala Val Leu Leu Glu Arg Ala Arg Pro Ser Thr Pro Pro Gln Thr Gln Ala Asp Ala Lys Glu Thr Cys Pro Asn Gly Val Ser Glu Glu Gln Gly Ile Lys Lys Pro Val Asp Arg Gln Ile Arg Val Phe Phe Ser Val Ala Ala Ser Ser Val Ala Glu Asn Asp Leu Pro Asp Ser Phe Tyr Ser Leu Ser Asn Glu Glu Ile

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Leu Ile Pro Lys Ser Tyr Lys Glu Lys Gln Ala Leu Ala Ala Arg Gln 305 310 315 320

Lys Tyr Lys Gln Ala Leu Ile Arg Ile Gln Phe Pro Asp Gly Val Ile 325 330 335

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Phe Val Ala Ser Ser Leu Lys Gln Pro Ser Leu Glu Phe Asp Leu Ile 355 360 365

Cys Pro Ala Gly Pro Arg Thr Arg Val Ile Pro Pro Phe Pro Lys Pro 370 375 380

Gly Glu Gln Ala Arg Thr Leu Arg Asp Glu Asp Leu Val Pro Ser Ala 385 390 395 400

Arg Leu Thr Phe Lys Pro Lys Glu Thr Asp Ser Val Val Phe Thr Gly 405 410 415

Leu Leu Asp Glu Leu Leu Glu Thr Ser Glu Pro Phe Thr Ser Ala Ser 420 425 430

Ser